

FOREWORD

This manual covers the service procedures of the TOYOTA FORKLIFT 7FGU/7FDU35 ~ 80 series and 7FGCU35 ~ 70 series. Please use this manual for providing quick, correct servicing of the corresponding forklift models.

This manual deals with the above models as of December 2000. Please understand that disagreement can take place between the descriptions in the manual and actual vehicles due to change in design and specifications. Any change or modifications thereafter will be informed by Toyota Industrial Equipment Parts & Service News.

For the service procedures of the mounted engine, read the repair manuals listed below as reference together with this manual.

(Reference)

Repair manuals related to this manual are as follows:

TOYOTA GM6-262 ENGINE
REPAIR MANUAL (No. C4630)

TOYOTA GM6-262 ENGINE
REPAIR MANUAL Supplement (No. CU668)

TOYOTA 11Z, 12Z, 13Z, 14Z ENGINE
REPAIR MANUAL (No. C4615-2)

TOYOTA 15Z ENGINE
REPAIR MANUAL (No. CE673)

Three Way Catalytic System
REPAIR MANUAL (No. CU643-2)

LPG DEVICE (for GM6-262 engine)
REPAIR MANUAL (No. CU667)

TOYOTA INDUSTRIAL EQUIPMENT 7FGU/7FDU35-80 OPS
REPAIR MANUAL (No. CU041)

TOYOTA INDUSTRIAL EQUIPMENT
PARTS & SERVICE NEWS (No. GE-7008)

TOYOTA Material Handling Company

A Division of TOYOTA INDUSTRIES CORPORATION

SECTION INDEX

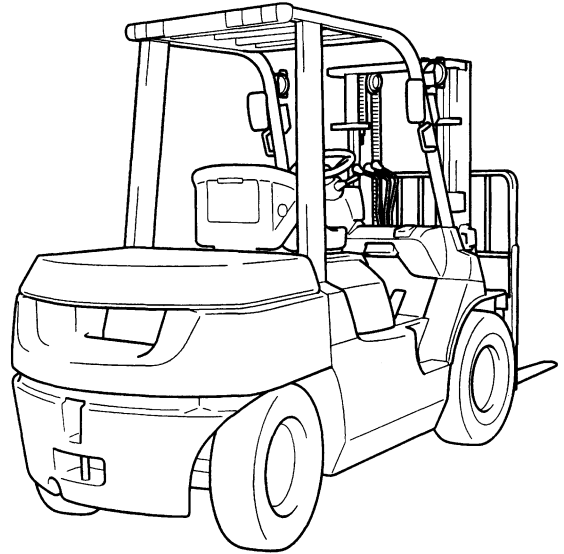
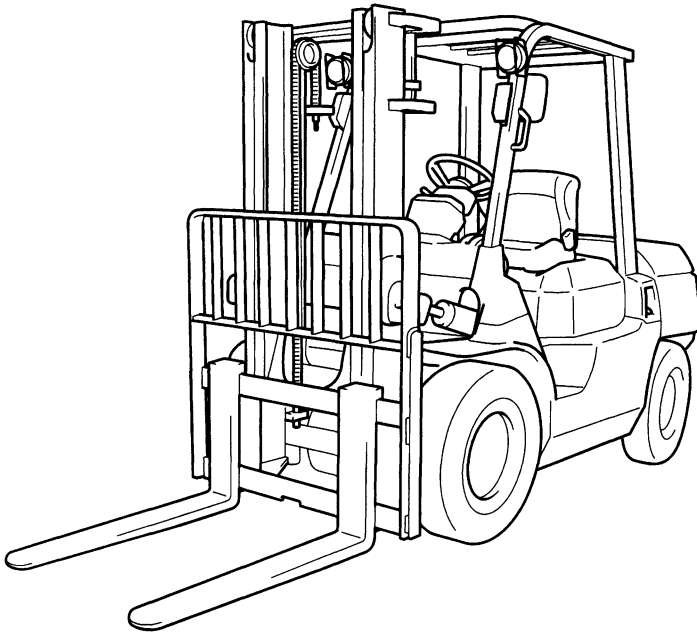
NAME	SECTION
GENERAL	0
ENGINE	1
TORQUE CONVERTER & TRANSMISSION	2
PROPELLER SHAFT	3
DIFFERENTIAL	4
FRONT AXLE	5
REAR AXLE	6
STEERING	7
BRAKE	8
BODY	9
MATERIAL HANDLING SYSTEM	10
MAST	11
CYLINDER	12
OIL PUMP	13
OIL CONTROL VALVE	14
SAS	15
APPENDIX	16

GENERAL

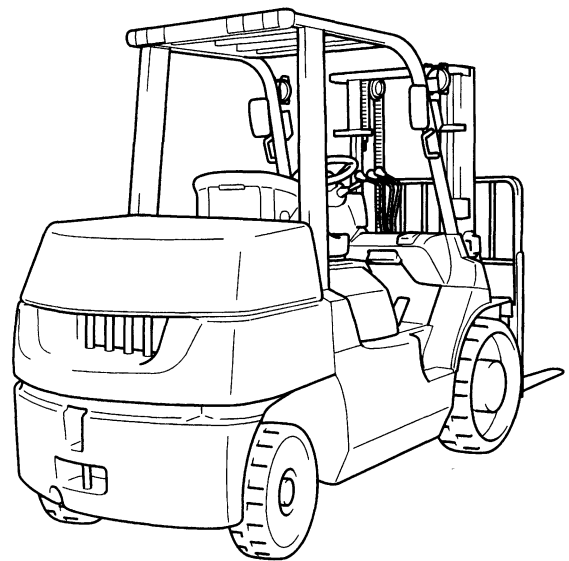
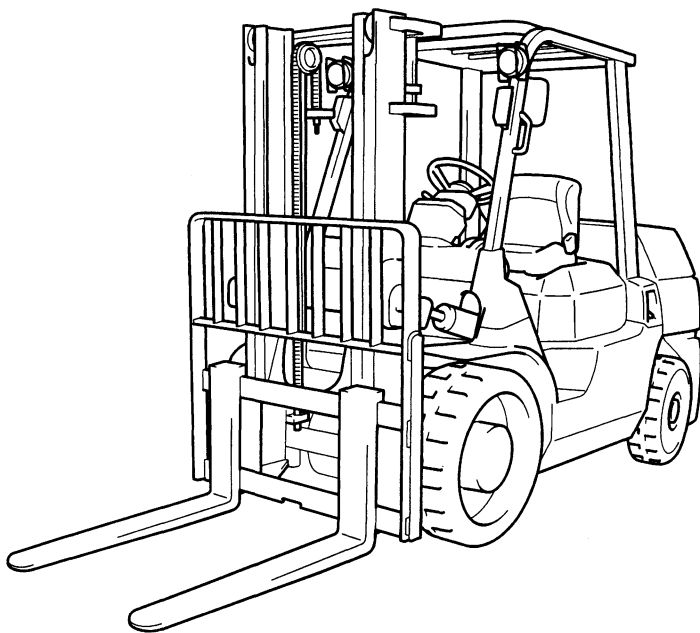
	Page
EXTERIOR VIEWS	0-2
VEHICLE MODEL (~ 2007.12).....	0-3
VEHICLE MODEL (2008.1 ~)	0-3A
FRAME NUMBER (~ 2007.12)	0-4
FRAME NUMBER (2008.1 ~)	0-4A
HOW TO USE THIS MANUAL	0-5
EXPLANATION METHOD	0-5
TERMINOLOGY	0-6
ABBREVIATIONS	0-6
OPERATIONAL TIPS	0-7
HOISTING THE VEHICLE	0-7
ATTENTIVE POINTS ON SAS	0-8
CIRCUIT TESTER.....	0-9
STANDARD BOLT & NUT TIGHTENING	
TORQUE	0-11
BOLT STRENGTH TYPE IDENTIFICATION METHOD	0-11
TIGHTENING TORQUE TABLE	0-12
PRECOAT BOLTS	0-13
HIGH PRESSURE HOSE FITTING	
TIGHTENING TORQUE	0-13
WIRE ROPE SUSPENSION ANGLE LIST	0-14
SAFE LOAD FOR EACH WIRE ROPE	
SUSPENSION ANGLE	0-14
COMPONENTS WEIGHT (~ 2007.12).....	0-15
COMPONENTS WEIGHT (2008.1 ~)	0-15A
RECOMMENDED LUBRICANT	
QUANTITY & TYPES (~ 2007.12)	0-16
RECOMMENDED LUBRICANT	
QUANTITY & TYPES (2008.1 ~)	0-16A
LUBRICATION CHART	0-17
PERIODIC MAINTENANCE.....	0-20
PERIODIC REPLACEMENT OF PARTS AND	
LUBRICANTS	0-26

EXTERIOR VIEWS

Pneumatic tire model



Cushion tire model



VEHICLE MODEL (~ 2007.12)

Pneumatic Tire Models (Pn)

Classification		Load Capacity	Vehicle Model	Transmission Type	Engine	
Series	Model					
Pn3.5 ton series	Pn35	8000 lbs	7FGU35	T/C	G4 (GM6-262)	Gasoline
			7FDU35	T/C	13Z	Diesel
	Pn40	9000 lbs	7FGKU40	T/C	G4 (GM6-262)	Gasoline
			7FDKU40	T/C	13Z	Diesel
Pn4.5 ton series	Pn45	10000 lbs	7FGU45	T/C	G4 (GM6-262)	Gasoline
			7FDU45	T/C	13Z	Diesel
	Pn50	11000 lbs	7FGAU50	T/C	G4 (GM6-262)	Gasoline
			7FDAU50	T/C	13Z	Diesel
Pn6.0 ton series	Pn60	13500 lbs	7FGU60	T/C	G4 (GM6-262)	Gasoline
			7FDU60	T/C	13Z	Diesel
	Pn70	15500 lbs	7FGU70	T/C	G4 (GM6-262)	Gasoline
			7FDU70	T/C	13Z	Diesel
	Pn80	17500 lbs	7FGU80	T/C	G4 (GM6-262)	Gasoline
			7FDU80	T/C	13Z	Diesel

Cushion Tire Models (Cu)

Classification		Load Capacity	Vehicle Model	Transmission Type	Engine	
Series	Model					
Cu3.5 ton series	Cu35	8000 lbs	7FGCU35	T/C	G4 (GM6-262)	Gasoline
	Cu45	10000 lbs	7FGCU45	T/C	G4 (GM6-262)	Gasoline
Cu5.5 ton series	Cu55	12000 lbs	7FGCU55	T/C	G4 (GM6-262)	Gasoline
	Cu60	13500 lbs	7FGCU60	T/C	G4 (GM6-262)	Gasoline
	Cu70	15500 lbs	7FGCU70	T/C	G4 (GM6-262)	Gasoline

Note:

The G4 engine is the same as the GM6-262 engine except for the nomenclature.

VEHICLE MODEL (2008.1 ~)

Pneumatic Tire Models (Pn)

Classification		Load Capacity	Vehicle Model	Transmission Type	Engine	
Series	Model					
Pn3.5 ton series	Pn35	8000 lbs	7FGU35	T/C	G4 (GM6-262)	Gasoline
			7FDU35	T/C	15Z	Diesel
	Pn40	9000 lbs	7FGKU40	T/C	G4 (GM6-262)	Gasoline
			7FDKU40	T/C	15Z	Diesel
Pn4.5 ton series	Pn45	10000 lbs	7FGU45	T/C	G4 (GM6-262)	Gasoline
			7FDU45	T/C	15Z	Diesel
	Pn50	11000 lbs	7FGAU50	T/C	G4 (GM6-262)	Gasoline
			7FDAU50	T/C	15Z	Diesel
Pn6.0 ton series	Pn60	13500 lbs	7FGU60	T/C	G4 (GM6-262)	Gasoline
			7FDU60	T/C	15Z	Diesel
	Pn70	15500 lbs	7FGU70	T/C	G4 (GM6-262)	Gasoline
			7FDU70	T/C	15Z	Diesel
	Pn80	17500 lbs	7FGU80	T/C	G4 (GM6-262)	Gasoline
			7FDU80	T/C	15Z	Diesel

Cushion Tire Models (Cu)

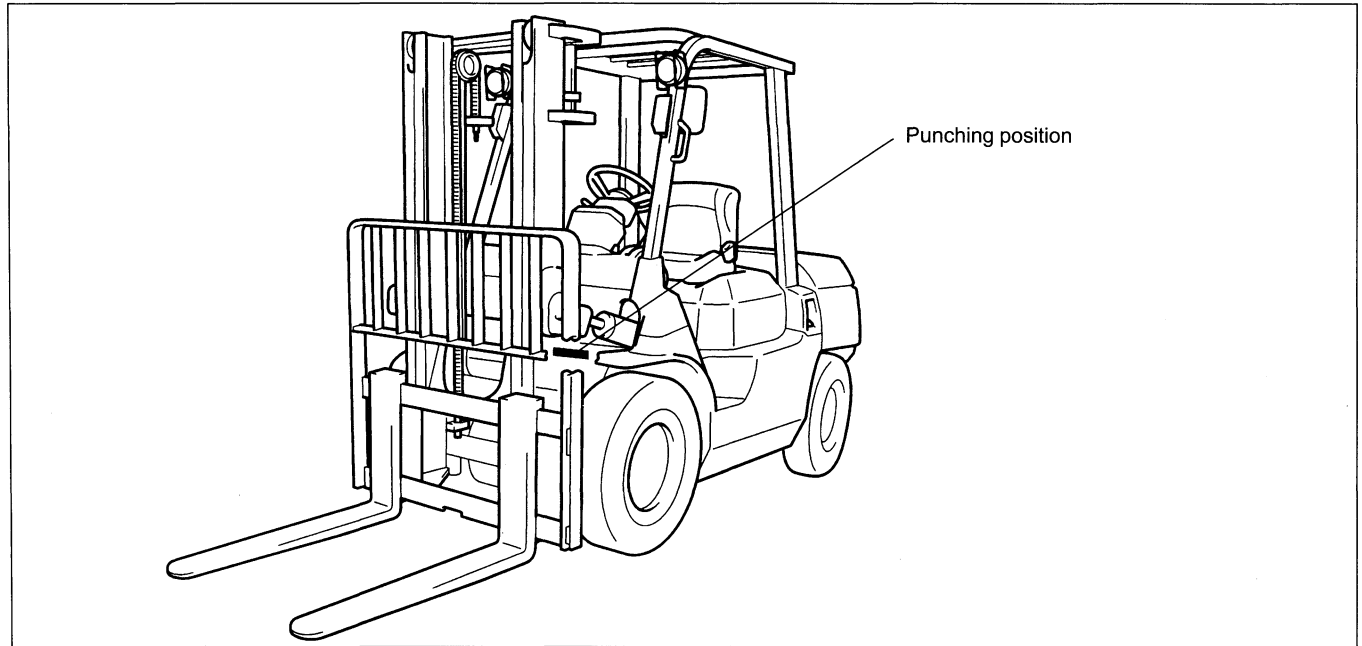
Classification		Load Capacity	Vehicle Model	Transmission Type	Engine	
Series	Model					
Cu3.5 ton series	Cu35	8000 lbs	7FGCU35	T/C	G4 (GM6-262)	Gasoline
	Cu45	10000 lbs	7FGCU45	T/C	G4 (GM6-262)	Gasoline
Cu5.5 ton series	Cu55	12000 lbs	7FGCU55	T/C	G4 (GM6-262)	Gasoline
	Cu60	13500 lbs	7FGCU60	T/C	G4 (GM6-262)	Gasoline
	Cu70	15500 lbs	7FGCU70	T/C	G4 (GM6-262)	Gasoline

Note:

The G4 engine is the same as the GM6-262 engine except for the nomenclature.

FRAME NUMBER (~ 2007.12)

Frame No. Punching Position



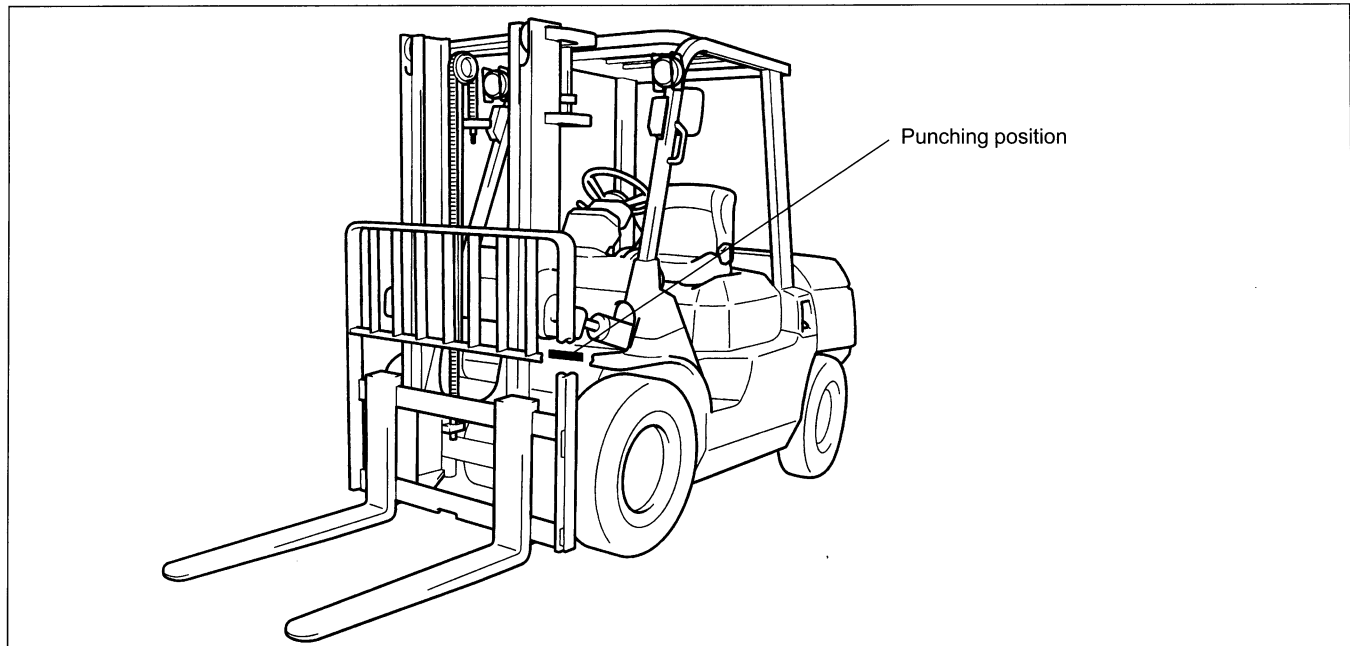
0

	Series	Engine	Vehicle model	Punching format
Pneumatic tire	3.5 ton series	G4 (GM6-262)	7FGU35	7FGKU40 - 60011
			7FGKU40	
		13Z	7FDU35	7FDKU40 - 60011
			7FDKU40	
	4.5 ton series	G4 (GM6-262)	7FGU45	7FGAU50 - 60011
			7FGAU50	
		13Z	7FDU45	7FDAU50 - 60011
			7FDAU50	
	6.0 ton series	G4 (GM6-262)	7FGU60	7FGU80 - 60011
			7FGU70	
			7FGU80	
		13Z	7FDU60	7FDU80 - 60011
7FDU70				
7FDU80				
Cushion tire	3.5 ton series	G4 (GM6-262)	7FGCU35	7FGCU45 - 60011 * 7FGCU45 © 60011
			7FGCU45	
	5.5 ton series	G4 (GM6-262)	7FGCU55	7FGCU70 - 60011
			7FGCU60	
			7FGCU70	
			7FGCU70	

*: EEC spec.

FRAME NUMBER (2008.1 ~)

Frame No. Punching Position



	Series	Engine	Vehicle model	Punching format
Pneumatic tire	3.5 ton series	G4 (GM6-262)	7FGU35	7FGKU40 - 70011
			7FGKU40	
		15Z	7FDU35	A7FDKU40 - 70011
			7FDKU40	
	4.5 ton series	G4 (GM6-262)	7FGU45	7FGAU50 - 70011
			7FGAU50	
		15Z	7FDU45	A7FDAU50 - 70011
			7FDAU50	
	6.0 ton series	G4 (GM6-262)	7FGU60	7FGU80 - 70011
			7FGU70	
			7FGU80	
		15Z	7FDU60	A7FDU80 - 70011
7FDU70				
7FDU80				
Cushion tire	3.5 ton series	G4 (GM6-262)	7FGCU35	7FGCU45 - 70011 * 7FGCU45 © 70011
			7FGCU45	
	5.5 ton series	G4 (GM6-262)	7FGCU55	7FGCU70 - 70011 * 7FGCU70 © 70011
			7FGCU60	
			7FGCU70	
			7FGCU70	

*: EEC spec.

HOW TO USE THIS MANUAL

EXPLANATION METHOD

1. Operation procedure

(1) The operation procedure is described in either pattern A or pattern B below.

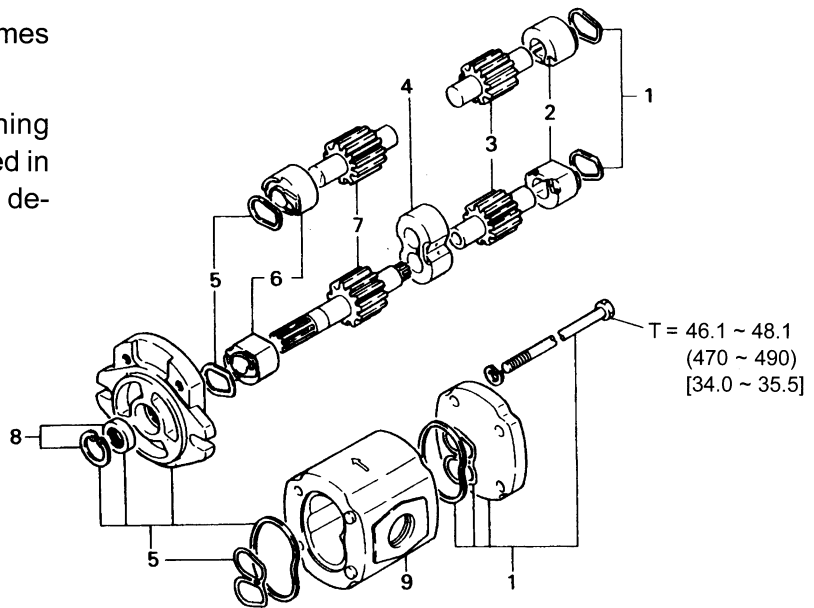
Pattern A: Explanation of each operation step with illustration.

Pattern B: Explanation of operation procedure by indicating step numbers in one illustration, followed by explanation of cautions and notes summarized as point operations.

Example of description in pattern B

DISASSEMBLY·INSPECTION·REASSEMBLY Tightening torque unit T = N·m (kgf·cm) [ft·lbf]

- Step Nos. are partially sometimes omitted in illustrations.
- When a part requiring tightening torque instruction is not indicated in the illustration, the part name is described in the illustration frame.



Disassembly Procedure

- 1 Remove the cover. **[Point 1]**
- 2 Remove the bushing **[Point 2]** ← Operation explained later
- 3 Remove the gear.

Point Operations Explanation of key point for operation with an illustration

[Point 1]

Disassembly: Put a match mark when removing the pump cover.

[Point 2]

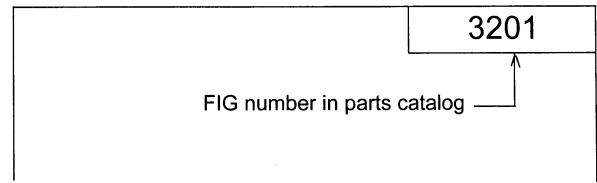
Inspection: Measure the bushing inside diameter.

Limit: 19.12 mm (0.7528 in)

2. How to read components figures

- (1) The components figure uses the illustration in the parts catalog for the vehicle model. Please refer to the catalog for checking the part name.
The number at the right shoulder of each components figure indicates the Fig. number in the parts catalog.

(Example)



3. Matters omitted in this manual

- (1) This manual omits description of the following jobs, but perform them in actual operation:
 - ① Cleaning and washing of removed parts as required
 - ② Visual inspection (partially described)

TERMINOLOGY

Caution:

Important matters of which negligence may cause hazards on human body. Be sure to observe them.

Note:

Important items of which negligence may cause breakage or breakdown, or matters in operation procedure requiring special attention.

Standard: Values showing allowable range in inspection and adjustment.

Limit: Maximum or minimum allowable value in inspection or adjustment.

ABBREVIATIONS

Abbreviation (code)	Meaning	Abbreviation (code)	Meaning
ASSY	Assembly	SAE	Society of Automotive Engineers (USA)
Cu	Cushion tire models	SAS	System of active stability
LH	Left hand	SST	Special service tool
LLC	Long life coolant	STD	Standard
M/T	Manual transmission	T =	Tightening torque
NMR	No-load maximum speed	T/C	Torque converter & transmission
OPT	Option	○ ○ T	Number of teeth (○ ○)
O/S	Oversize	U/S	Undersize
Pn	Pneumatic tire models	W/	With
PS	Power steering	L/	Less
RH	Right hand		

**Thank you very much
for your reading.**

**Please click here to buy
After you pay.**

**Then, you can
download the complete
manual instantly.
No waiting.**